Attorney Docket No.: VRT0097US

## WHAT IS CLAIMED IS:

ı	1. A method comprising.		
2	determining that a change occurred to data in a first region of a first plurality of regions of a		
3	first volume without including the first region in a set of regions designated for		
4	replication to a second volume.		
1	2. The method of claim 1 wherein		
2			
	the change occurred to the data in the first region as a result of restoring at least one region of		
3	the first plurality of regions from a second set of regions of a third volume.		
1	3. The method of claim 2 wherein		
2	the third volume is a snapshot of the first volume at one point in time.		
1	4. The method of claim 1 wherein		
2	a second region of the first plurality of regions is included in the set of regions designated for		
3	replication when		
4	a respective change to the second region is added to a log comprising at least one		
5	change to at least one region, wherein		
6	each region of the at least one region in the log is designated for replication to		
7	the second volume.		
1	5. The method of claim 4 wherein		
2	a third region of the first plurality of regions is included in the set of regions designated for		
3	replication when		
4	a second respective change occurs to the third region, and		
5	the second respective change to the third region cannot be added to the log.		
1	6. The method of claim 1 further comprising:		
2	1 2		
2	adding the first region to the set of regions designated for replication.		
1	7. The method of claim 6 further comprising:		
2	replicating each region in the set of regions designated for replication from the first volume to		
3	the second volume.		
1	8 The method of claim 7 wherein		

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3	the second volume.			
1	9. The method of claim 7 wherein			
2	the replicating continues during the restoring.			
1	10. The method of claim 7 wherein			
2	the data are accessible during the replicating.			
1	11. The method of claim 7 wherein			
2	the data are accessible during the restoring.			
1	12. The method of claim 7 wherein			
2	the determining that the change occurred comprises			
3	determining that the first region is one of a set of pending regions in a log, wherein			
4	the log comprises at least one change to at least one region,			
5	each region of the at least one region in the log is included in the set of regions			
6	designated for replication, and			
7	the replicating has not replicated the set of pending regions.			
1	13. The method of claim 1 wherein			
2	a second region of the first plurality of regions is included in the set of regions designated for			
3	replication when			
4	a second respective change occurs to the second region, and			
5	the second respective change cannot be added to a log of changes to at least one			
6	region, wherein			
7	each region of the at least one region in the log is included in the set of regions			
8	designated for replication.			
1	14. A system comprising:			
2	determining means for determining that a change occurred to data in a first region of a first			
3	plurality of regions of a first volume without including the first region in a set of			
4	regions designated for replication to a second volume; and			
5	adding means for adding the region to the set of regions designated for replication.			
1	15. The system of claim 14 further comprising:			

2	replicating means for replicating each region in the set of regions designated for replication			
3	from the first volume to the second volume.			
1	16.	The system of claim 15 wherein		
2	the replicating means do not replicate all regions from the first volume to the second volume.			
1	17. A	system comprising:		
2	a determining module to determine that a change occurred to data in a first region of a first			
3	plurality of regions of a first volume without including the first region in a set of			
4	regions designated for replication to a second volume.			
1	18.	The system of claim 17 further comprising:		
2	an adding module to add the region to the set of regions designated for replication.			
1	19.	The system of claim 17 further comprising:		
2	a replicating module to replicate each region in the set of regions designated for replication			
3	from the first volume to the second volume.			
1	20.	The system of claim 17 wherein		
2	the replicating module does not replicate all regions from the first volume to the second			
3	volume.			
1	21. A	computer-readable medium comprising:		
2	determining instructions to determine that a change occurred to data in a first region of a first			
3	plurality of regions of a first volume without including the first region in a set of			
4	regions designated for replication to a second volume.			
1	22.	The computer-readable medium of claim 21 further comprising:		
2	adding instructions to add the region to the set of regions designated for replication.			
1	23.	The computer-readable medium of claim 21 further comprising:		
2	replicating instructions to replicate each region in the set of regions designated for replication			
3	from the first volume to the second volume.			
1	24.	The computer-readable medium of claim 21 wherein		
2	the replicating instructions do not replicate all regions from the first volume to the second			
3	volume			